To avoid explosion:
Make sure the supply voltage is the same as the luminaire voltage.
Do not install where the marked operating temperatures exceed the ignition temperature of the hazardous atmosphere.
Do not operate in ambient temperatures above those indicated on the luminaire nameplate.
Use proper supply wiring as specified in the luminaire nameplate.
All gasket seals must be clean.
Before opening, electrical power to the luminaire must be turned off. Keep tightly closed when in operation.
Determine area is non-hazardous before servicing.

To avoid fire, explosion, or electric shock, this product should be installed, inspected and maintained by a qualified electrician only, in accordance with all applicable electrical codes.

To avoid electrical shock:
Be certain electrical power is OFF before and during installation and maintenence.
Luminaire must be supplied by a wiring system with an equipment grounding conductor.

INSTALLATION
This fixture is provided with maximum of three sets of knockouts for alternate mounting orientation.

There are three alternative mounting orientations:

- Wall mount
- Ceiling mount
- End mount

Junction box is used for mounting only. All wires must be routed through conduit.

Use standard wire 18 - 16 AWG or Solid wire 18 - 17 AWG

To mount on a wall: (see Figure 2)
1. Remove exit stencil assembly from frame by prying up on the notches along the edge.
2. Remove knockout for CONDUIT HUB at the desired location, with hammer and screwdriver, or drill out with 7/8" diameter hole saw.
3. Knock out the appropriate mounting pattern on the MOUNTING BASE for the J-box being used. Also, the (2) 3/8" diameter mounting holes are to be utilized for installation and proper seal of the BACK GASKET. Remove backing from gasket during gasket installation.
4. Install conduit hub and sealing gasket that comes with the fixture. See Figure 1
5. Complete the conduit installation with approved 1/2" CONDUIT and FITTINGS. Use 1/2" liquid tight fittings for sealing against moisture.
6. Connect power supply in accordance with Local Codes and the NEC Code for Class I, Div. 2 Hazardous Location. All wires must be routed through conduit.
To mount on a ceiling or end mount: (see Figure 3 & 4)

1. Remove exit stencil assembly from frame by prying up on the notches along the edge (See Figure 1)
2. Knockout: Remove knockout with hammer and screwdriver, or drill out with 7/8” hole saw.
   a. For Canopy: Ceiling mounting: remove Top knockout as shown in Figure 3.  End mounting: remove knockout on left or right of the fixture as shown in Figure 4.
   b. Conduit Hub: Ceiling mounting: remove left or right knockout as desires Figure 3.  End mounting remove top or unused side knockout as desired Figure 4.
3. Remove the inner GASKET for use with the CANOPY and the JUNCTION BOX BRACKET.  Remove backing from gasket. Attach the GASKET and mount the BRACKET and CANOPY to the J-box with (4) screws.  Mount the FRAME securely to the CANOPY with (2) screws 1/4" - 20 UNC x 1” long and WASHER.
4. Install conduit hub and sealing gasket that comes with the fixture. (see Figure 1)
5. Complete the conduit installation with approved 1/2” CONDUIT and FITTINGS.  Use 1/2” liquid tight fittings for sealing against moisture.
6. Connect power supply in accordance with Local Codes and the NEC Code for Class I, Div. 2 Hazardous Location. All wires must be routed through conduit.

Wire connections as follows: 120V line to black lead, neutral to white lead. Cap unused wires.

1. Insert the wires into appropriate PUSH IN connector located on the TRANSFORMER in the EXIT STENCIL.
2. Route the wires neatly around the EXIT STENCIL wire retaining clips. Push and snap-in the EXIT STENCIL into the FRAME. Check installation by checking the EXIT STENCIL ensuring that it is flush mounted onto the FRAME and that the wires are routed properly around the EXIT STENCIL.
3. Check the “O” RING in the FRAME, ensuring it is clean from dirt. Mount the SHIELD onto the FRAME. With the SCREWS and “O” RINGS provided, check to see that one “O” RING is under the SCREW HEAD and one “O” RING is holding the screw inside of the SHIELD. Tighten the SCREWS on the SHIELD securely, do not over tighten. Push down on the shield to ensure the are sealed properly against the FRAME “O” RING.
4. Energize the AC supply, LED display will illuminate.
MAINTENANCE

None required. The unit is self-testing and self diagnostic. It will automatically test itself and indicate if the battery or circuit board needs to be replaced. Accurate monthly records of status of the diagnostic LED indicator should be kept.

OPERATION

The diagnostic LED indicator near the test switch indicates status of the unit. If the unit is operating under battery power (either in the emergency mode or a battery capacity test) the indicator will turn off. When the unit is fully charged and in a float charge condition, the indicator will be on steady. If the unit is fast charging the LED will blink. If the battery has failed a capacity test by becoming over discharged during the test, or if the battery is not connected after 15 minutes of operation, the LED will double blink then repeat the double blink. The unit will automatically test the battery capacity every thirty days for 30 seconds. It will perform a full battery capacity test for 90 minutes, randomly within each 6-month period. The unit continuously monitors the LED display and the condition of the circuit board. If a circuit failure occurs that turns off the EXIT display, or the battery charger circuit fails, then a circuit failure will be indicated by the indicator blinking three times. If 50 % or more of the lamps in the EXIT display fail, the diagnostic LED will indicate a lamp failure by blinking four times. When the unit is first turned on under AC power, the unit will fast charge for the first 24 hours. The emergency mode can be manually tested for 30 seconds by momentarily pressing the TEST SWITCH. Also it can be tested by aiming a Laser Pointer at the PHOTOCELL labeled LASER TEST on the bottom of the SHIELD. Operation under battery power can be tested in this way at any time, however it is recommended that the test be performed only when the unit is in the float charge condition. While the battery power will be used when the test button is pressed, it will only test the battery capacity when it is fully charged in the float charge condition. This feature prevents the unit from indicating a false battery capacity failure which could happen if the battery is not fully charged and its capacity is tested.

CAUTION

This equipment is furnished with a sophisticated low voltage battery dropout circuit to protect battery from over discharge after its useful output has been used. Allow 24 hour recharge time after installation or power failure for testing.

TROUBLE SHOOTING HINTS

LED DISPLAY DOES NOT COME ON OR DIAGNOSTIC INDICATOR OUT BEFORE TEST. Check AC supply be sure unit has 24 hour AC supply. Unit is shorted or battery is not connected. Note: If battery was disconnected and unit is indicating battery failure, you will need to disconnect the battery connector and AC supply to reset the unit. Battery discharged, permit unit to charge for 24 hours and then re-test. If following the above trouble shooting hints does not solve your problem, contact your local Sure-Lites Representative or the factory for assistance.

BATTERY REPLACEMENT

STEP 1 When a failed battery is replaced, first turn off AC supply to the unit.
STEP 2 Remove Shield then pry off stencil by inserting a screwdriver in the notch along the edge.
STEP 3 Plug in the new battery into the the LED display PC board.
STEP 4 Energize AC supply, LED display will come on. Allow 24-hour recharge time after installation for testing.

REPLACEMENT PARTS

Cooper Crouse-Hinds VMV Series Champ Luminaires are designed to provide years of reliable lighting performance. However, should the need for replacement parts arise, they are available through your authorized Cooper Crouse-Hinds distributor. Assistance may also be obtained through your local Cooper Crouse-Hinds representative or the Cooper

Cooper Crouse-Hinds Sales Service Department, P.O. Box 4999, Syracuse, New York 13221, Phone 315/477-7000.

All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof are not guaranteed. In accordance with Crouse-Hinds "Terms and Conditions of Sale," and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability whatsoever in connection therewith.